Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0002 Sutter Maintenance Yard East Levee	Overall LMA Rating M *	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Sutter Bypass	IVI ^	21.68 Maintena	nce Deficiency		Enforc	System		
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles		Obsoles M Miles	
Earthen Levee								
Encroachments	0.02		0.02	0.09%		0.01		
Slope Stability	0.04		0.04	0.19%				
Erosion / Bank Caving	0.01	0.03	0.13	0.60%				
Cracking							0.01	
Supplemental								
2017 USACE Erosion Survey, DRAFT	0.03		0.03	0.14%				
DWR UCIP Field Study					0.12			
DWR UCIP LMA Responsibility								
LMA Totals:	0.10	0.03	0.22	1.01% *	0.12	0.01	0.01	0.00
	l .							
Unit No. 01 Sutter Bypass Levee LB	Overall Unit Rating	Total Unit Miles		Threshold Perceres are present, so				
Unit No. 01 Sutter Bypass Levee LB				es are present, so				
ST0002	Rating	Miles 21.68	U Rated Mile	es are present, so	the Overa			
-	Rating	Miles 21.68	U Rated Mile instead of A.	es are present, so	the Overa	Il Unit Ratir	ng is M Design & Obsole	
ST0002	Rating M *	Miles 21.68 Maintena	U Rated Mile instead of A.	es are present, so	the Overa	Il Unit Ratir	ng is M Design & Obsole	scence
ST0002 Rated Item	Rating M *	Miles 21.68 Maintena	U Rated Mile instead of A.	es are present, so	the Overa	Il Unit Ratir	ng is M Design & Obsole	scence
ST0002 Rated Item Earthen Levee	Rating M * M Miles	Miles 21.68 Maintena	U Rated Mile instead of A. nce Deficiency M + 4U Miles	es are present, so	the Overa	cement U Miles	ng is M Design & Obsole	scence
ST0002 Rated Item Earthen Levee Encroachments	M * M Miles	Miles 21.68 Maintena	U Rated Mile instead of A. nce Deficiency M + 4U Miles	Threshold %	the Overa	cement U Miles	ng is M Design & Obsole	scence
Rated Item Earthen Levee Encroachments Slope Stability	M * M Miles 0.02 0.04	Miles 21.68 Maintena U Miles	U Rated Mile instead of A. nce Deficiency M + 4U Miles 0.02 0.04	Threshold % 0.09% 0.19%	the Overa	tement U Miles	ng is M Design & Obsole	scence
Rated Item Earthen Levee Encroachments Slope Stability Erosion / Bank Caving	M * M Miles 0.02 0.04	Miles 21.68 Maintena U Miles	U Rated Mile instead of A. nce Deficiency M + 4U Miles 0.02 0.04	Threshold % 0.09% 0.19%	the Overa	tement U Miles	Design & Obsole: M Miles	scence
Rated Item Earthen Levee Encroachments Slope Stability Erosion / Bank Caving Cracking	M * M Miles 0.02 0.04	Miles 21.68 Maintena U Miles	U Rated Mile instead of A. nce Deficiency M + 4U Miles 0.02 0.04	Threshold % 0.09% 0.19%	the Overa	tement U Miles	Design & Obsole: M Miles	scence
Rated Item Earthen Levee Encroachments Slope Stability Erosion / Bank Caving Cracking Supplemental	M * M Miles 0.02 0.04 0.01	Miles 21.68 Maintena U Miles	U Rated Mile instead of A. nce Deficiency M + 4U Miles 0.02 0.04 0.13	Threshold % 0.09% 0.19% 0.60%	the Overa	tement U Miles	Design & Obsole: M Miles	scence
Rated Item Earthen Levee Encroachments Slope Stability Erosion / Bank Caving Cracking Supplemental 2017 USACE Erosion Survey, DRAFT	M * M Miles 0.02 0.04 0.01	Miles 21.68 Maintena U Miles	U Rated Mile instead of A. nce Deficiency M + 4U Miles 0.02 0.04 0.13	Threshold % 0.09% 0.19% 0.60%	Enforce M Miles	tement U Miles	Design & Obsole: M Miles	scence

LMA District Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sutter Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	
	** Non-receipt of Summ Reports may effect o		* Overall LMA Threshold 10.00%; however, U R so the Overall LMA Ra	ated Miles are present,
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated	ratings are not detern d using the same crite	nined for the spring ins ria in the spring and in	spection results. Individ the fall.	ual maintenance
FALL INSPECTIONS: The overall maintena within the attached u			on and maintenance de nded to be an indiction	
Comments				

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles
Unit No. 01 Sutter Bypass Levee	Left	21.68

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	3/27/2018 - 3/27/2018		10/3/2018 - 10/3/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

^{*} Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ма	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals				0		0
DWR ID	DWR_ST00	002_01_s _ 201	3_4				
		Comn	nent Cod	de			
		Inspecto	or Comm	nent			
The LMA has the O&M manuals.							

No Photos

Rating ** Issue No. Α 5 LM Start Issue Type + Ма Location * N/A LM End Earthen Levee GPS Latitude/Longitude Category Start End Emergency Supplies & Item Equipment DWR_ST0002_01_s _ 2013_5 DWR ID Comment Code

Inspector Comment

No Photos

LM Start Rating ** A Issue No. 6

LM End Issue Type + Ma Location * N/A

Category Earthen Levee GPS Latitude/Longitude
Start End

Item Flood Preparedness & Training

No Photos

Comment Code

Inspector Comment

The LMA has completed flood flight training.

DWR ID DWR_ST0002_01_s _ 2013_6

The LMA has flood fight supplies and equipment.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side

A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N : Not Inspected/Rated C : Corrected + Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	0.32	Rating **	М	Issue No.		62
LM End	0.32	Issue Type +	En	Location *		
Category				GPS La	atitud	e/Longitude
Calegory				Start		End
Item	DWR UCI	P Field Study		39.1474	63 °	39.147463°
пеш				-121.8287	16°	-121.828716 °
DWR ID	16859					

No Photos

Inspector Comment

Comment Code

FS_ID:51556 DS_ID:16859 EP_NO: 4795

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/11/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/10/2016 Unable to locate.4/18/2016 Unable to locate.5/7/2015 Could not locate a marker for this crossing.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013

Same as last inspection. Unable to locate 10/8/2012 Unable to locate any indicator of crossing. More research may be necessary. FIELD_STRUCT_DESC: 3-inch gas line of an unknown material along

the landside (LS) toe, at an unknown depth. (Permit No. 4795, 1965 -Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 4/13/2017 12:41:48 PM

LM Start	0.34	Rating **	Α	Issue No.		35	
LM End	3.57	Issue Type +	Ма	Location *	n* WS		
Catagori Earthen Levee				GPS La	atitud	e/Longitude	
Category			Start		End		
Item	Vegetatio	n		39.1472	58°	39.120235°	
iteiii				-121.8285	57°	-121.779503°	
DWR ID DWR_ST0002_01_f _ 2018_35							
Comment Code							
V1 : Control annual grass and weeds on the levee slopes and							

easements.

Inspector Comment

The vegetation was removed from the waterside slope.

Photo 1 of 2: FA_2018_ST0002_450_35_20181120_00077.jpg



View of no vegetation along the waterside slope.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	0.34	Rating **	Α	Issue No.		35 (cont)	
LM End	3.57	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee			GPS La	atitud	e/Longitude	
Calegory	egory			Start		End	
Item	Vegetatio	n		39.147258°		39.120235°	
пеш				-121.8285	57°	-121.779503°	
DWR ID DWR_ST0002_01_f _ 2018_35							
Comment Code							
V1 · Contro	ol annual c	rass and wee	ds on th	e levee slor	265	and	

Inspector Comment
The vegetation was removed from the waterside slope.

Photo 2 of 2 : FA_2018_ST0002_450_35_20181008_00073.jpg

View of the vegetation along the waterside slope.

LM Start	0.36	Rating **	M	Issue No.		42
LM End	0.36	Issue Type +	Ma	Location *		WS
Category	evee	GPS La	atitud	le/Longitude		
Calegory				Start		End
Item	Erosion /	Bank Caving		39.1471	83°	39.147183°
item			-121.8281	42 °	-121.828142 °	
DWR ID	DWR_ST0	002_01_s _ 201	7_42			

Comment Code

E1: Note and monitor erosion site.

easements.

Inspector Comment

Repair the erosion along the water side toe.

Photo 1 of 1: FA_2018_ST0002_450_42_20180905_00010.jpg



View of the erosion along the waterside toe.

LM Start	0.38	Rating **	Α	Issue No.		36	
LM End	2.62	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Vegetatio	n		39.1470	35°	39.128203	٥
Item				-121.8277	43°	-121.793845	٥
DWR ID	DWR_ST0	002_01_f _ 2018	3_36				

Comment Code

 $\ensuremath{\mathsf{V2}}$: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

The vegetation was removed from the landside slope.

Photo 1 of 2: FA_2018_ST0002_450_36_20181120_00078.jpg



View of no vegetation along the landside slope.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	0.38	Rating **	Α	Issue No.		36 (cont)			
LM End	2.62	Issue Type +	Ma	Location *		LS			
Category	Earthen L	evee		GPS La	titud	le/Longitude			
Calegory				Start		End			
Item	Vegetatio	n		39.1470	35°	39.128203°			
item				-121.827743 °		-121.793845 °			
DWR ID DWR_ST0002_01_f _ 2018_36									
		Comn	nent Cod	de					
V2 : Remo slopes.	ve the wild	growth other	than na	tive grasses	fro	m the levee			
		Inspecto	or Comm	nent					
The vegeta	The vegetation was removed from the landside slope.								
The vegeta	The vegetation was removed from the landside slope.								



View of the vegetation along the landside slope.

LM Start	1.11	Rating **	M	Issue No.		46			
LM End	1.11	Issue Type +	Ma	Location *		WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Category			Start		End				
Item	Encroach	ments		39.1408	817°	39.140817°			
item				-121.816848 °		-121.816848 °			
DWR ID	DWR ID DWR_ST0002_01_s _ 2018_46								
		Comn	nent Cod	de					
GA : Garba	age								
			_						
		Inspect	or Comm	nent					
Remove the garbage from the waterside slope.									



View of the garbage along the waterside slope.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	1.12	Rating **	М	Issue No.		63		
LM End	1.12	Issue Type +	En	Location *				
Category	Suppleme		GPS La	tituc	le/Longitude			
Calegory				Start		End		
Item	DWR UCIP Field Study			39.1408	68°	39.140868°		
item			-121.8166	44 °	-121.816644°			
DWR ID	16862							
	Comment Code							

Inspector Comment

FS_ID:51560 DS_ID:16862 EP_NO: 10932

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- AFreitag)10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried.(DWR Sutter Yard - afreitag)4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.5/7/2015 24in, cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch coated steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)].

Photo 1 of 3: UCIP_FA_2018_51560_64805.jpg



Pump on metal pier on WS slope.

FS Date: 4/13/2017 12:49:52 PM

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	1.12	Rating **	М	Issue No.	63 (cont)				
LM End	1.12	Issue Type +	En	Location *					
Category	Suppleme	ental		GPS Latitude/Longitude					
Calegory				Start		End			
Item	DWR UCIP Field Study			39.14086	8°	39.140868°			
пеш				-121.81664	4 °	-121.816644°			
DWR ID	16862								
	Comment Code								

Inspector Comment

FS_ID:51560 DS_ID:16862 EP_NO: 10932

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- AFreitag)10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried.(DWR Sutter Yard - afreitag)4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.5/7/2015 24in, cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch coated steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)].

Photo 2 of 3: UCIP_FA_2018_51560_64804.jpg



24-inch CMP riser on WS slope.

FS Date: 4/13/2017 12:49:52 PM

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	1.12	Rating **	М	Issue No.		63 (cont)			
LM End	1.12	Issue Type +	En	Location *					
Category	Suppleme	ental	GPS La	atituc	le/Longitude				
Calegory			Start		End				
Item	DWR UCIP Field Study			39.1408	68°	39.140868°			
пеш				-121.8166	44 °	-121.816644°			
DWR ID	16862								
	Comment Code								

Inspector Comment

FS_ID:51560 DS_ID:16862 EP_NO: 10932

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Riser knocked out of place on WS shoulder and no sign of the siphon breaker. Suspect it was buried. (DWR Sutter Yard- AFreitag)10/10/2016 WS CMP riser is still knocked out of place and siphon breaker is suspected to be buried.(DWR Sutter Yard - afreitag)4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.5/7/2015 24in, cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue. FIELD_STRUCT_DESC: 16-inch coated steel irrigation pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on the WS shoulder. Original equipment in O&M. Hand drawings available in permit. (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976 - Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)]. FS Date: 4/13/2017 12:49:52 PM

Photo 3 of 3: UCIP_FA_2018_51560_64803.jpg



7'X7' concrete distribution box on LS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	1.53	Rating **	U	Issue No.	57		
LM End	1.53	Issue Type +	Ma	Location *	WS		
Catagony	evee	GPS La	atitud	e/Longitude			
Calegory	Category			Start		End	
Item	Erosion / Bank Caving			39.1373	73 °	39.137373°	
пеш				-121.8103	82°	-121.810382°	
DWR ID	DWR_ST0	002_01_f _ 201	7_57				
		Comn	nent Cod	de			
E2: Schedule repair of erosion site prior to the next inspection.							
	Ingrestor Comment						

Inspector Comment Repair the beaver hole along the waterside berm.

Photo 1 of 1: FA_2018_ST0002_450_57_20180905_00014.jpg



View of the beaver hole along the waterside berm.

LM Start	1.57	Rating **	U	Issue No.		58
LM End	1.57	Issue Type +	Ma Location *		Location * W	
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory	Category		Start		End	
Item	Erosion /	Bank Caving	39.1370	10°	39.137010°	
пеш			-121.8096	73 °	-121.809673°	
DWR ID	DWR_ST0	002_01_f _ 2017	7_58			

Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Repair the beaver hole along the waterside berm.

Photo 1 of 1: FA_2018_ST0002_450_58_20180905_00015.jpg



View of the beaver hole along the waterside berm.

LM Start	1.61	Rating **	U	Issue No.		61
LM End	1.61	Issue Type +	Ма	Location *		WS
Earthen Levee			GPS La	titud	e/Longitude	
Calegory	Category			Start		End
Item	Erosion /	Bank Caving		39.1367	3°	39.136713°
пеш				-121.80920)2 °	-121.809202°
DWR ID	DWR STO	002 01 f 2017	7 61			

Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Repair the beaver hole along the waterside berm.

Photo 1 of 1: FA_2018_ST0002_450_61_20180905_00016.jpg



View of the beaver hole along the waterside berm.

*	L	ОС	atic	n
		_		

N/A: Not Applicable

LS: Land Side WS: Water Side

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiency Ob : Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.		64
LM End	3.55	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS La	titud	e/Longitude
Calegory						End
Item	DWR UCI	P LMA Respo	onsibility	39.1203	72 °	39.120372°
пеш		,			00 °	-121.779800°
DWR ID	16880					

Inspector Comment

Comment Code

FS_ID:51566 DS_ID:16880 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment.

FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 1 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)].

FS Date: 4/13/2017 1:10:49 PM

LM Start	3.55	Rating **	A/W	Issue No.	64 (cont)
LM End	3.55	Issue Type +	Ma	Location *	



Slide gates on LS shoulder.

Photo 2 of 3: UCIP_FA_2018_51566_64814.jpg



Flap gates on WS toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.		64 (cont)
LM End	3.55	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory	Category			Start		End
Item	DWR UCI	P LMA Respo	nsibility	39.12037	2°	39.120372°
item		-121.77980	o°	-121.779800°		
DWR ID	16880					

Inspector Comment

Comment Code

FS ID:51566 DS_ID:16880 EP NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned, good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverts are still being used as gravity drains for the LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates left in open position. Unable to determine type of abandonment for concrete culverts. Contact inspector to determine type of abandonment.

FIELD_STRUCT_DESĆ: *ABANDONED* [Pumping Plant No. 3] 1 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)].

FS Date: 4/13/2017 1:10:49 PM

Photo 3 of 3: UCIP_FA_2018_51566_64813.jpg



Abandoned pumphouse and sump on LS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	3.55	Rating **	A/W	Issue No.		65
LM End	3.55	Issue Type +	Ма	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory	ory			Start		End
Item	DWR UCI	P LMA Respo	nsibility	39.12035	8 °	39.120358°
пеш				-121.77977	5 °	-121.779775°
DWR ID	16895					

Inspector Comment

Comment Code

FS ID:51567 DS_ID:16895 EP NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverst still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment.

FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 2 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)].

FS Date: 4/13/2017 1:16:13 PM

LM Start	3.55	Rating **	A/W	Issue No.	65 (cont)
LM End	3.55	Issue Type +	Ма	Location *	

Photo 1 of 3: UCIP_FA_2018_51567_64819.jpg



Slide gate valves on LS shoulder.

Photo 2 of 3: UCIP_FA_2018_51567_64818.jpg



Flap gates on WS toe.

Location + Issue Type Ma: Maintenance Deficiency LS: Land Side N/A: Not Applicable Acceptable N: Not Inspected/Rated WS: Water Side Minimally Acceptable Ob : Design & System Obsolescence C : Corrected U : Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	3.55 Rating ** A/W		Issue No.		65 (cont)			
LM End	3.55	Issue Type +	Ma	Location *				
Category Supplemental				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCIP LMA Responsibility		39.1203	58°	39.120358 °			
пеш			-121.7797	75°	-121.779775 °			
DWR ID	16895					·		

Comment Code

Inspector Comment

FS_ID:51567 DS_ID:16895 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culverst still being used as gravity drains for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Flap gates in open position. Need to determine type of abandonment. Contact inspector to determine abandonment.

FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 3] 2 of 2: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in concrete well on the landside (LS) shoulder. Wood flap gate and concrete headwall on the waterside (WS) end. Abandoned State pumping plant on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 966+30)].

FS Date: 4/13/2017 1:16:13 PM



Abandoned pumphouse and sump on LS toe.

LM Start	4.81	Rating **	М	Issue No.	26			
LM End	4.81	Issue Type +	Ob	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Cracking			39.1081	10°	39.108110°		
пеш				-121.76262	23 °	-121.762623°		
DWR ID	DWR ID DWR_ST0002_01_f _ 2016_26							
	Comment Code							

CR1: Monitor and have inspected by geotechnical engineer.

Inspector Comment

Longitudinal cracks caused by fat clay.

Photo 1 of 1: FA_2018_ST0002_450_26_20180905_00005.jpg



View of the longitudinal cracks.

* Location		** Rating		+ Issue Type
LS: Land Side	N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS: Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	5.19	Rating **	М	Issue No.		45		
LM End	5.19	Issue Type +	Ma	Location *		WS		
Category Earthen Levee				GPS La	atitud	e/Longitude		
Calegory	iry .			Start		End		
Slope Stability				39.103368°		39.103368°		
item				-121.7587				
DWR ID	DWR_ST00	002_01_s _ 201	8_45					
Comment Code								
S3 : Repair the levee slope damaged by vehicle traffic and prevent								

access where possible.

Inspector Comment

Repair the slope damaged by vehicle traffic.



View of the vehicle traffic along the waterside slope.

LM Start	7.47	Rating **	М	Issue No.		66
LM End	7.47	Issue Type +	En	Location *		
Category				GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCI	IP Field Study		39.0722	92°	39.072292°
пеш			-121.7449	07°	-121.744907°	
DWR ID	19985					

Comment Code

Inspector Comment

FS_ID:51582 DS_ID:19985 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 No Permit identified for crossing. FIELD_STRUCT_DESC: Steel gas line of an unknown size crosses the levee at an unknown depth. Carsonite sign located on the waterside (WS) shoulder and at the landside (LS) toe across the toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012.

Photo 1 of 3: UCIP_FA_2018_51582_65213.jpg



Gasline marker on WS shoulder.

FS Date: 4/13/2017 1:56:50 PM

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	7.47	Rating **	М	Issue No.		66 (cont)		
LM End	7.47	Issue Type +	En	Location *				
Category				GPS Latitude/Longitude				
Calegory			Start		End			
Item	DWR UCI	P Field Study		39.0722	92 °	39.072292°		
пеш	item			-121.7449	07°	-121.744907°		
DWR ID	19985							

Inspector Comment

Comment Code

FS_ID:51582 DS_ID:19985 EP_NO: N/A

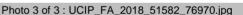
Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 No Permit identified for crossing. FIELD_STRUCT_DESC: Steel gas line of an unknown size crosses the levee at an unknown depth. Carsonite sign located on the waterside (WS) shoulder and at the landside (LS) toe across the toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/13/2017 1:56:50 PM

LM Start	7.47	Rating **	М	Issue No.	66 (cont)
LM End	7.47	Issue Type +	En	Location *	



Gasline marker on LS toe east of ditch.





Close up of marker

* Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating

A: Acceptable
N: Not Inspected/Rated
N: Not Inspected/Rated
C: Corrected
M: Minimally Acceptable
C: Corrected
AW: Acceptable but Monitor & Maintain

* Issue Type
Ma: Maintenance Deficiency
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	7.83	Rating **	A/W	Issue No.		34			
LM End	7.83	Issue Type +	Ma	Location *		WS			
Earthen Levee				GPS L	atitud	e/Longitude			
Category				Start		End			
Item	Erosion /	Bank Caving		39.0672	299°	39.067299°			
item				-121.7428	851°	-121.742851 °			
DWR ID DWR_ST0002_01_f _ 2016_34									
		Comn	nent Cod	de					
E1 : Note a	and monito	or erosion site							
		Inspecto	or Comm	nent					

Photo 1 of 1: FA_2018_ST0002_450_34_20180905_00007.jpg

View of the erosion along the waterside toe.

No Photos

Issue No. Rating ** A/W 7.90 41 LM Start 8.66 Issue Type + Location * LS LM End Supplemental GPS Latitude/Longitude Category Start End 2017 Storm Damage 39.066360° 39.055830° Item -121.742320° -121.738090 ° DWR_ST0002_01_f _ 2017_41 DWR ID

Comment Code

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:175

Site Designation:FSRP-13-65 Repair Type: Seepage

Rating: Field Date: Notes:

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence

A/W : Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	8.14	Rating **	М	Issue No.		67	
LM End	8.14	Issue Type +	En	Location *			
Category	Supplemental				GPS Latitude/Longitude		
Calegory				Start		End	
Item	DWR UCI	P Field Study		39.0629	76°	39.062976°	
item						-121.741027°	
DWR ID 19984							

Comment Code

Inspector Comment

FS_ID:51583 DS_ID:19984 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/10/2016 Crossing appears to be in good condition. (DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.5/13/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 No permit or purpose identified for this crossing.

FIELD_STRUCT_DESC: 2.5-inch steel pipe of an unknown purpose bored under the levee, at an unknown depth. Pipe has locked cap on the landside (LS) toe. Steel I-beam stream crossing on the LS toe marks the location of the pipe. Waterside (WS) marker of pipe crossing is not identified. No permit has been identified since crossing was field discovered in 2012.

FS Date: 4/13/2017 2:00:16 PM

LM Start	8.14	Rating **	М	Issue No.	67 (cont)
LM End	8.14	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2018_51583_65215.jpg

Pipe at steel i-beam crossing in ditch at LS toe.

Photo 2 of 2: UCIP_FA_2018_51583_65214.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.28	Rating **	М	Issue No.	68				
LM End	10.28	Issue Type +	En	Location *					
Category	Supplemental				GPS Latitude/Longitude				
Calegory			Start		End				
Item	DWR UC	P Field Study		39.0335	22 °	39.033522°			
пеш				-121.728927 ° -121.72892					
DWR ID 16884									
	Comment Code								

Inspector Comment

FS_ID:53446 DS_ID:16884 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stablized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)

Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if

the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integirty of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)

through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Coorporation [CRC]).

FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline

FS Date: 10/4/2018 10:58:00 AM



Gasline markers on LS toe .

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.28	Rating **	М	Issue No.		68 (cont)	
LM End	10.28	Issue Type +	En	Location *			
Catagony	Supplemental				atitud	le/Longitude	
Category				Start		End	
Item	DWR UC	IP Field Study		39.0335	22 °	39.033522°	
пеш				-121.728927 ° -121.72892			
DWR ID 16884							
Comment Code							

Inspector Comment

FS_ID:53446 DS_ID:16884 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stablized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)

4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integirty of the levee. (DWR Sutter Yard afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard afreitag)5/22/2013 Carsonite marker on WS shouller is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of

emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California



Gasline markers on WS shoulder.

Resources Production Coorporation [CRC]).

FS Date: 10/4/2018 10:58:00 AM

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.28	Rating **	М	Issue No.	68 (cont)			
LM End	10.28	Issue Type +	En	Location *				
Category	Suppleme	Supplemental			GPS Latitude/Longitude			
Category				Start		End		
Item	DWR UCI	P Field Study		39.0335	22 °	39.033522°		
item				-121.7289	27°	-121.728927°		
DWR ID 16884								
	Comment Code							

Inspector Comment

FS_ID:53446 DS_ID:16884 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stablized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR

UCIP) 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard- AFreitag) 10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integirty of the levee. (DWR Sutter Yard afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard afreitag)5/22/2013 Carsonite marker on WS shouller is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 1 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Coorporation [CRC]).



Damaged gas lines at the WS berm.

FS Date: 10/4/2018 10:58:00 AM

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.28	Rating **	М	Issue No.		69
LM End	10.28	Issue Type +	En	Location *		
Category			GPS La	titud	e/Longitude	
Calegory				Start		End
Item	DWR UCI	P Field Study		39.03351	9°	39.033519°
пеш				-121.72892	6°	-121.728926°
DWR ID	16899				·	·

Inspector Comment

Comment Code

FS_ID:53447 DS_ID:16899 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stablized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR

UCIP) 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integirty of the levee. (DWR Sutter Yard afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 2 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-

800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California



Gasline markers on LS toe.

Resources Production Coorporation [CRC]).

FS Date: 10/4/2018 10:59:00 AM

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.28	Rating **	М	Issue No.		69 (cont)		
LM End	10.28	Issue Type +	En	Location *				
Supplemental				GPS Latitude/Longitude				
Category	Category					End		
Item	DWR UC	P Field Study		39.0335	19°	39.033519°		
пеш				-121.72892	26°	-121.728926 °		
DWR ID 16899								
Comment Code								

Inspector Comment

FS_ID:53447 DS_ID:16899 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stablized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)

4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if

the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integirty of the levee. (DWR Sutter Yard - afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard - afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag)

through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Coorporation [CRC]).

FS Date: 10/4/2018 10:59:00 AM

Photo 2 of 3: UCIP_FA_2018_53447_65218.jpg



Gasline markers on WS shoulder.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.28	Rating **	М	Issue No.		69 (cont)	
LM End	10.28	Issue Type +	En	Location *			
Supplemental				GPS Latitude/Longi			
Calegory	Category			Start		End	
Item	DWR UCI	P Field Study		39.0335	19°	39.033519°	
item				-121.7289	26°	-121.728926°	
DWR ID 16899							

Inspector Comment

Comment Code

FS_ID:53447 DS_ID:16899 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stablized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR

UCIP) 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos Updated. (DWR Sutter Yard- AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integirty of the levee. (DWR Sutter Yard afreitag)5/7/2015 Marker on WS broken. (DWR Sutter Yard afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 2 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Coorporation [CRC]).



Damaged gas lines at the WS berm.

FS Date: 10/4/2018 10:59:00 AM

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.28	Rating **	М	Issue No.		70
LM End	10.28	Issue Type +	En	Location *		
Supplemental				GPS La	titud	e/Longitude
Calegory	Category			Start		End
Item	DWR UCI	P Field Study		39.0335	17°	39.033517°
item			-121.72892	25 °	-121.728925°	
DWR ID	16900					·

Inspector Comment

Comment Code

FS_ID:53448 DS_ID:16900 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stablized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)

4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard-AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integirty of the levee. (DWR Sutter Yard afreitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard -

FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California

afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and

Resources Production Coorporation [CRC]).

should be replaced. (DWR Sutter Yard - afreitag)

FS Date: 10/4/2018 11:00:00 AM



Gasline markers on LS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.28	Rating **	М	Issue No.		70 (cont)		
LM End	10.28	Issue Type +	En	Location *				
Supplemental				GPS Latitude/Longitude				
Category	Category					End		
Item	DWR UC	P Field Study		39.0335	17°	39.033517°		
пеш				-121.7289	25 °	-121.728925 °		
DWR ID 16900								
Comment Code								

Inspector Comment

FS_ID:53448 DS_ID:16900 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stablized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR UCIP)

4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard-AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integirty of the levee. (DWR Sutter Yard afreitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of

emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 - Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California

Photo 2 of 3: UCIP_FA_2018_53448_65223.jpg



Gasline markers on WS shoulder.

Resources Production Coorporation [CRC]).

FS Date: 10/4/2018 11:00:00 AM

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.28	Rating **	М	Issue No.		70 (cont)	
LM End	10.28	Issue Type +	En	Location *			
Category	ental	GPS La	atitud	e/Longitude			
Calegory	Calegory					End	
Item	DWR UCI	P Field Study		39.0335	17°	39.033517°	
item				-121.7289	25 °	-121.728925 °	
DWR ID 16900							

Inspector Comment

Comment Code

FS_ID:53448 DS_ID:16900 EP_NO: 14455

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 10/04/2018 Crossing has been downgraded from Urgent to Non-Urgent. Slopes are stable. WS toe was stablized with rock. Need to contact utility owner to determine the status of the line. Unable to determine if the line is abandoned or active therefore crossing remains classified as a Non-Urgent issue. (O. Magana - DWR

UCIP) 4/11/2017 The damage to the levee toe was repaired by Sutter Maintenance Yard. The hole was filled in and compacted with rock. The repairs have not yet been made to the gas line by the gas line owners but the damage does not affect the integrity of the levee or bank. Photos updated. (DWR Sutter Yard-AFreitag)10/18/2016 it is unknown if the damage to the levee toe from the farmer getting his tractor stuck has been repaired (DWR UCIP - thatch) 10/10/2016 Crossing appears to be in good condition but im not sure if the damaged pipe section at the WS berm was ever repaired. (DWR Sutter Yard - afreitag)4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integirty of the levee. (DWR Sutter Yard afreitag)5/7/2015 Marker on Ws broken. (DWR Sutter Yard afreitag)11/12/2014 Same as last inspection. (DWR Sutter Yard afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard afreitag)5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced. (DWR Sutter Yard - afreitag) FIELD_STRUCT_DESC: 3 of 3: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were placed in same trench, 1 foot apart. Gas line markers located on the landside (LS) toe and the waterside (WS) shoulder. Owner listed on markers is California Resources Corporation (CRC) and can be reached in case of emergency at 1-661-763-6363. For dig alert, call 811 or USA North 1-800-227-2600. (underground natural gas pipeline across Sutter Bypass and through both levees authorized under Permit No. 14455, 1986 Depco, Inc.; name and ownership change for underground natural gas line was authorized under Permit No. 14455-1, 2016 - California Resources Production Coorporation [CRC]).



Damaged gas lines at WS berm.

FS Date: 10/4/2018 11:00:00 AM

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.83	Rating **	М	Issue No.		71		
LM End	10.83	Issue Type +	Ма	Location *				
Category				GPS Latitude/Longitud				
Calegory				Start		End		
Item	DWR UCI	P LMA Respo	nsibility	39.02569	3°	39.025693°		
пеш				-121.72689	5°	-121.726895 °		
DWR ID	16871					·		

Inspector Comment

Comment Code

FS_ID:51595 DS_ID:16871 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Aabandoned.10/10/2016 Abandoned crossing.4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues with it.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 1 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 4/13/2017 2:16:54 PM

LM Start	10.83	Rating **	М	Issue No.	71 (cont)
LM End	10.83	Issue Type +	Ma	Location *	



Slide gates on WS shoulder





Flap gates on WS toe.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence Cn: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiency Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.83	Rating **	М	Issue No.		71 (cont)	
LM End	10.83	Issue Type +	Ма	Location *			
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	P LMA Respo	nsibility	39.02569	3°	39.025693°	
пеш				-121.72689	5°	-121.726895 °	
DWR ID	16871					·	

Comment Code

Inspector Comment

FS_ID:51595 DS_ID:16871 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Aabandoned.10/10/2016 Abandoned crossing.4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticebale issues with it.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 1 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].
FS Date: 4/13/2017 2:16:54 PM

Photo 3 of 3 : UCIP_FA_2018_51595_65249.jpg

Pumphouse/intake structure on LS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.83	Rating **	М	Issue No.		72
LM End	10.83	Issue Type +	Ma	Location *		
Category	Suppleme	ental		GPS Lat	itud	le/Longitude
Calegory				Start		End
Item	DWR UCI	P LMA Respo	onsibility	39.02568	3°	39.025683°
пеш				-121.72688	6°	-121.726886 °
DWR ID	16906					

Inspector Comment

Comment Code

FS_ID:51596 DS_ID:16906 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Abandoned.10/10/2016 Crossing

appears to be in good condition. (DWR Sutter Yard -

afreitag)4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment.
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 2 of 5:

48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].

FS Date: 4/13/2017 2:17:39 PM

LM Start	10.83	Rating **	М	Issue No.	72 (cont)
LM End	10.83	Issue Type +	Ma	Location *	



Slide gates on WS shoulder.

Photo 2 of 3: UCIP_FA_2018_51596_65253.jpg



Flap gates on WS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.83	Rating **	М	Issue No.		72 (cont)	
LM End	10.83	Issue Type +	Ma	Location *			
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	IP LMA Respo	onsibility	39.02568	3°	39.025683	0
пеш				-121.72688	s°	-121.726886	0
DWR ID	16906						

Inspector Comment

Comment Code

FS ID:51596 DS_ID:16906 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Abandoned.10/10/2016 Crossing

appears to be in good condition. (DWR Sutter Yard -

afreitag)4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment.

FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 2 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].

FS Date: 4/13/2017 2:17:39 PM



Pumping plant on LS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.		73
LM End	10.83	Issue Type +	Ma	Location *		
Category	Suppleme	ental		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	DWR UCI	P LMA Respo	onsibility	39.0256	73 °	39.025673°
пеш				-121.7268	73 °	-121.726873°
DWR ID	16907					·

Inspector Comment

Comment Code

FS_ID:51597 DS_ID:16907 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment.

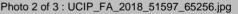
FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 3 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].

FS Date: 4/13/2017 2:18:31 PM

LM Start	10.83	Rating **	A/W	Issue No.	73 (cont)
LM End	10.83	Issue Type +	Ma	Location *	



Slide gates on WS shoulder.





Flap gates on WS toe.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated C: Corrected M: Minimally Acceptable U: Unacceptable AW: Acceptable but Monitor & Maintain

** Rating

A: Acceptable N: Not Inspected/Rated Ma: Maintenance Deficiency Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.		73 (cont)			
LM End	10.83	Issue Type +	Ма	Location *					
Category	Supplemental				GPS Latitude/Longitude				
Calegory				Start		End			
Item	DWR UCI	P LMA Respo	nsibility	39.02567	3°	39.025673°			
пеш				-121.72687	3°	-121.726873°			
DWR ID	16907								

Inspector Comment

Comment Code

FS_ID:51597 DS_ID:16907 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment.

FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 3 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].

FS Date: 4/13/2017 2:18:31 PM



Pumphouse and intake on LS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway		Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.		74		
LM End	10.83	Issue Type +	Ма	Location *				
Category	Supplemental				GPS Latitude/Longitude			
Calegory				Start		End		
Item	DWR UCI	IP LMA Respo	onsibility	39.02565	6°	39.025656°		
пеш				-121.72687	8°	-121.726878°		
DWR ID	16908							

Inspector Comment

Comment Code

FS_ID:51598 DS_ID:16908 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.

FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 4 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 4/13/2017 2:19:46 PM

LM Start	10.83	Rating **	A/W	Issue No.	74 (cont)
LM End	10.83	Issue Type +	Ma	Location *	



Slide gates on WS shoulder.



Flap gates on WS toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway		Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.		74 (cont)	
LM End	10.83	Issue Type +	Ма	Location *			
Category				GPS Latitude/Longitude			
Calegory			Start		End		
Item	DWR UCI	P LMA Respo	nsibility	39.02565	6 °	39.025656 °	
пеш				-121.72687	'8°	-121.726878°	
DWR ID	16908					·	

Inspector Comment

Comment Code

FS_ID:51598 DS_ID:16908 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.

FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 4 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 4/13/2017 2:19:46 PM

Photo 3 of 3 : UCIP_FA_2018_51598_65258.jpg

Pumphouse and intake on LS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.		75	
LM End	10.83	Ma	Location *				
Category	Supplemental			GPS La	atitud	de/Longitude	
Calegory				Start		End	
Item	DWR UCIP LMA Responsibility			39.0256	39°	39.025639°	
пеш				-121.7268	74°	-121.726874°	
DWR ID	16909						

Comment Code

Inspector Comment

FS ID:51599 DS_ID:16909 EP NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumping plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment for pipe.

FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 5 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]. FS Date: 4/13/2017 2:20:32 PM

10.83 Rating ** A/W Issue No. 75 (cont) LM Start Location ' LM End 10.83 Issue Type + Ма



Slide gates on WS shoulder.





Flap gates on WS Toe.

Location + Issue Type LS: Land Side N/A: Not Applicable Acceptable N : Not Inspected/Rated Ma: Maintenance Deficiency WS: Water Side Minimally Acceptable Ob : Design & System Obsolescence C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.83	Rating **	A/W	Issue No.		75 (cont)	
LM End	10.83	Issue Type +	Ma	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	DWR UCIP LMA Responsibility			°	39.025639	0
пеш				-121.72687	1°	-121.726874	0
DWR ID	16909						

Inspector Comment

Comment Code

FS_ID:51599 DS_ID:16909 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was removed but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.5/22/2013 Concrete culvert is being used as gravity drain for LS ditch.10/8/2012 Need to determine type of abandonment for pipe.

FIELD_STRUCT_DESC: *ABANDONED* [Pumping Plant No. 2] 5 of 5: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 31.5 feet below the crown. Slide gate in concrete well on the waterside (WS) shoulder. Wood flap gate and concrete headwall on the WS end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)].

FS Date: 4/13/2017 2:20:32 PM



Pumphouse/intake on LS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.84	Rating **	М	Issue No.		76
LM End	10.84	Issue Type +	En	Location *		
Category	Supplemental			GPS La	le/Longitude	
Calegory				Start		End
Item	DWR UCIP Field Study			39.02556	° 08	39.025560°
пеш				-121.72684	16°	-121.726846°
DWR ID	16872					·

Inspector Comment

Comment Code

FS_ID:51600 DS_ID:16872 EP_NO: 3165

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Abandoned. 10/10/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)4/18/2016 Abandoned crossing but no noticebale issues to report.5/7/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need

to determine type of abandonment.
FIELD_STRUCT_DESC: *ABANDONED* 10-inch drainage pipe through the levee, 2 feet below the crown. Siphon breaker in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. Minimalistic design drawings available. (Permit No. 3165, 1959 - State of California Department of Water Resources [DWR]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/13/2017 2:21:21 PM

Photo 1 of 1: UCIP_FA_2018_51600_65264.jpg



Siphon breaker in 36-inch CMP riser on WS shoulder. Pipe visible at siphon breaker.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.85	Rating **	М	Issue No.		77
LM End	10.85	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCI	DWR UCIP Field Study			10°	39.025310°
пеш				-121.7267	70°	-121.726770°
DWR ID	19986					

Inspector Comment

Comment Code

FS_ID:51601 DS_ID:19986 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)10/10/2016 Crossing appears to be in good condition but there is no permit on file.(DWR Sutter Yard - afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/9/2012 No permit identified for crossing.

FIELD_STRUCT_DESC: Gas pipeline of an unknown size or material crosses the levee, at an unknown depth. Carsonite signs on both the landside (LS) and the waterside (WS) shoulder. Pipeline is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012.

FS Date: 4/13/2017 2:21:49 PM

LM Start	10.85	Rating **	М	Issue No.	77 (cont)
LM End	10.85	Issue Type +	En	Location *	



Gasline marker on LS shoulder.

Photo 2 of 3: UCIP_FA_2018_51601_65265.jpg



Gasline marker on WS shoulder.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	10.85	Rating **	М	Issue No.		77 (cont)	
LM End	10.85	Issue Type +	En	Location *			
Catagory	Category				GPS Latitude/Longitude		
Category				Start		End	
Item	DWR UCIP Field Study			39.02531	0 °	39.025310	0
пеш				-121.72677	o°	-121.726770	٥
DWR ID	19986						

Inspector Comment

Comment Code

FS ID:51601 DS_ID:19986 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 4/11/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)10/10/2016 Crossing appears to be in good condition but there is no permit on file.(DWR Sutter Yard afreitag)4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/9/2012 No permit identified for crossing.

FIELD_STRUCT_DESC: Gas pipeline of an unknown size or material crosses the levee, at an unknown depth. Carsonite signs on both the landside (LS) and the waterside (WS) shoulder. Pipeline is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012.

FS Date: 4/13/2017 2:21:49 PM

Photo 3 of 3: UCIP_FA_2018_51601_76971.jpg



Close up of marker

LM Start	10.88	Rating **	М	Issue No.		1		
LM End	10.91	Issue Type +	Ma	Location *	WS			
Category	Category Supplemental			GPS Latitude/Longitude				
Category				Start		End		
Item		2017 USACE Erosion Survey, DRAFT			35°	39.024399 °	,	
item	DRAFT				29°	-121.726808 °	,	
DWR ID	DWR_ST0	002_01_s _ 201	6_1					
Comment Code								

Inspector Comment

2011 - Small section of the mid levee slope has eroded from wind wave. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: SBP_11-1_L] No change

No Photos

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	12.75	Rating **	М	Issue No.		44	
LM End	12.75	Issue Type +	Ma	Location *	WS		
Category	Earthen L	Earthen Levee			atitud	e/Longitude	
				Start		End	
Item	Encroach	Encroachments			98°	38.998698°	
пеш				-121.718062 °		-121.718062°	
DWR ID	DWR_ST0	DWR_ST0002_01_s _ 2018_44					
		Comn	nent Cod	de			
MA : Mate	rial						
		Inspect	or Comm	nent			
Remove the tires from the water side slope and toe.							
·							



View of the tires along the waterside slope and toe.

LM Start	12.94	Rating **	М	Issue No.		78
LM End	12.94	Issue Type +	En	Location *		
Category				GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCI	P Field Study		38.9963	04°	38.996304°
item				-121.7162	90°	-121.716290°
DWR ID	16883					

Comment Code

Inspector Comment

FS_ID:51602 DS_ID:16883 EP_NO: 15571

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 4/11/2017 Unable to locate. (DWR Sutter Yard - AFreitag)10/10/2016 Unable to locate.(DWR Sutter Yard - afreitag)4/18/2016 Unable to locate.5/7/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.5/14/2014 Same as last inspection.10/30/2013 Same as last

inspection.5/23/2013 Same as last inspection. Unable to locate.10/9/2012 Need to determine status of pipeline. Unable to

locate any markers in field.

FIELD_STRUCT_DESC: 10.75-inch steel gas pipeline through the levee, 2 feet below the crown. Pipeline was installed within the flowage area and both levees of the Sutter Bypass. Design drawings are available. (Permit No. 15571, 1990 - Hood Corporation).

FS Date: 4/13/2017 2:26:11 PM

No Photos

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	13.34	Rating **	A/W	Issue No.		23	
LM End	13.34	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS La	e/Longitude		
Category			Start		End		
Slope Stability			38.991857°		38.991857°		
item				-121.7115	55°	-121.711555°	
DWR ID	DWR_ST0	002_01_s _ 201	5_23				
Comment Code							
	r the levee	slope damag	ed by ve	ehicle traffic	and	prevent	

access where possible.

Inspector Comment

Monitor the erosion along the waterside slope.



View of the vehicle erosion along the slope.

LM Start	13.83	Rating **	С	Issue No.		39
LM End	13.83	Issue Type +	Ма	Location *		WS
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item	Encroach	Encroachments			53°	38.987353°
пеш				-121.7046	13°	-121.704613°
DWR ID	DWR_ST0	002_01_s _ 201	8_39			

Comment Code

TR: Tree or limb

Inspector Comment

The tree was removed from the waterside slope and toe.

No Photos

LM Start	14.71	Rating **	М	Issue No.		37	
LM End	14.71	Issue Type +	Ма	Location *		WS	_
Cotogony	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Slope Sta	bility		38.9793	89°	38.979389	0
пеш				-121.6919	23 °	-121.691923	0
DWR ID	DWR STO	002 01 f 2016	37				

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Repair the vehicle erosion along the waterside slope.



View of the erosion caused by vehicle traffic.

Location + Issue Type Ma : Maintenance Deficiency
Ob : Design & System Obsolescence LS: Land Side N/A: Not Applicable A : Acceptable M : Minimally Acceptable N: Not Inspected/Rated WS: Water Side C : Corrected A/W : Acceptable but Monitor & Maintain U : Unacceptable En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	14.71	Rating **	М	Issue No.		79	
LM End	14.71	Issue Type +	En	Location *	cation *		
Category Supplemental				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		38.97937	77°	38.979377°	
пеш				-121.69192	29°	-121.691929°	
DWR ID	16875						

Inspector Comment

Comment Code

FS_ID:51605 DS_ID:16875 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing.(DWR Sutter Yard-afreitag)4/18/2016 Abandoned crossing.5/7/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Pipe has not been abandoned properly. It should be removed from the levee section.

FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both the waterside (WS) and the landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)].

FS Date: 4/13/2017 2:34:10 PM

LM Start	14.71	Rating **	М	Issue No.	79 (cont)
LM End	14.71	Issue Type +	En	Location *	



Pipe on WS slope exposed and crushed below 30-inch steel riser.

Photo 2 of 3: UCIP_FA_2018_51605_65313.jpg



Steel riser on LS shoulder.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	14.71			Issue No.		79 (cont)		
LM End	14.71	Issue Type +	Type + En Location *					
Category				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCI	IP Field Study		38.97937	77°	38.979377	٥	
пеш				-121.69192	29°	-121.691929	٥	
DWR ID	16875							

Inspector Comment

Comment Code

FS_ID:51605 DS_ID:16875 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing.(DWR Sutter Yard-afreitag)4/18/2016 Abandoned crossing.5/7/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Pipe has not been abandoned properly. It should be removed from the levee section.

FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both the waterside (WS) and the landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)].

FS Date: 4/13/2017 2:34:10 PM



Crushed pipe on WS slope.

LM Start	15.30	Rating **	Α	Issue No.	38		
LM End	15.30	Issue Type +	Ma	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Category				Start End			
Item	Vegetatio	n		38.973997°		38.973997°	
пеш				-121.6832	33 °	-121.683283 °	
DWR ID DWR_ST0002_01_f _ 2018_38							
		Comn	nent Cod	de			

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The vegetation was removed from both slopes.

Photo 1 of 1: FA_2018_ST0002_450_38_20181106_00075.jpg



View of no vegetation on both slopes.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiency

Ob: Design & System Obsolescence

En: Enforcement

** Rating

A: Acceptable N: Not Inspected/Rated Ob: Design & System Obsolescence

A: Acceptable C: Corrected Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	17.60	Rating **	М	Issue No.		21		
LM End	17.60	Issue Type +	Ma	Location *		WS		
Earthen Levee			GPS La	atitud	e/Longitude			
Category				Start		End		
Item	Slope Stability					38.949965 °		
пеш				-121.653823 ° -121.653				
DWR ID DWR_ST0002_01_s _ 2015_21								
		Comn	nent Cod	de				
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.								
		Inspecto	or Comm	nent				
Repair the vehicle erosion along the waterside slope.								

No.			
	A ST		

View of the vehicle erosion along the waterside slope.

/02/2015

Photo 1 of 2: FA_2018_ST0002_450_21_20180905_00002.jpg

 LM Start
 17.60
 Rating **
 M
 Issue No.
 21 (cont)

 LM End
 17.60
 Issue Type +
 Ma
 Location *
 WS

Photo 2 of 2: FA_2018_ST0002_450_21_20180905_00003.jpg



View of the vehicle erosion along the waterside slope.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.		80
LM End	19.18	Issue Type +	Ma	Location *		
Category	Suppleme	ental		GPS Lat	GPS Latitude/	
Calegory				Start		End
Item	DWR UCI	P LMA Respo	onsibility	38.93247	6°	38.932476 °
пеш				-121.63517	3°	-121.635173°
DWR ID	16877					

Inspector Comment

Comment Code

FS_ID:51609 DS_ID:16877 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last

inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culvert.

FIELD_STRUCT_DESC: [Pumping Plant No. 1] 1 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)].

FS Date: 4/13/2017 2:44:23 PM





Pumphouse on LS toe.

Photo 2 of 3: UCIP_FA_2018_51609_65325.jpg



Slide gates on WS shoulder.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.		80 (cont)
LM End	19.18	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS La	e/Longitude	
Calegory	gory			Start		End
Item	DWR UCI	P LMA Respo	nsibility	38.93247	'6	38.932476°
пеш				-121.63517	'3 °	-121.635173°
DWR ID	16877					·

Inspector Comment

Comment Code

FS_ID:51609 DS_ID:16877 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain inspection.5/23/2013 Concrete culvert is being used as gravity drain

inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culvert

FIELD_STRUCT_DESC: [Pumping Plant No. 1] 1 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)].

FS Date: 4/13/2017 2:44:23 PM

Photo 3 of 3: UCIP_FA_2018_51609_65327.jpg



Flap gates on WS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.		81
LM End	19.18	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory	Sategory			Start		End
Item	DWR UCI	P LMA Respo	nsibility	38.93246	9°	38.932469°
пеш				-121.63516	0°	-121.635160°
DWR ID	17027					

Inspector Comment

Comment Code

FS_ID:51610 DS_ID:17027 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good Condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last

inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete culverts.

FIELD_STRUCT_DESC: [Pumping Plant No. 1] 2 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]. FS Date: 4/13/2017 2:47:22 PM

 LM Start
 19.18
 Rating **
 A/W
 Issue No.
 81 (cont)

 LM End
 19.18
 Issue Type +
 Ma
 Location *



Pumphouse on LS toe.

Photo 2 of 3: UCIP_FA_2018_51610_65329.jpg



Slide gates on WS shoulder.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.		81 (cont)		
LM End	19.18	Issue Type +	Ма	Location *				
Category	Supplemental				GPS Latitude/Longitude			
Calegory	ategory			Start		End		
Item	DWR UCI	P LMA Respo	nsibility	38.93246	9°	38.932469°		
пеш				-121.63516	o°	-121.635160 °		
DWR ID	17027							

Inspector Comment

Comment Code

FS_ID:51610 DS_ID:17027 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not abandoned. Good Condition. (DWR Sutter Yard- AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Determine type of abandonment for concrete

FIELD_STRUCT_DESC: [Pumping Plant No. 1] 2 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)].

FS Date: 4/13/2017 2:47:22 PM

Photo 3 of 3: UCIP_FA_2018_51610_65328.jpg



Flap gates on WS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.		82	
LM End	19.18	Issue Type +	Ma	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCIP LMA Responsibility			38.9324	60°	38.932460°	
пеш			-121.6351	50°	-121.635150°		
DWR ID	17028						

Inspector Comment

Comment Code

FS_ID:51611 DS_ID:17028 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last

inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Need to determine type of abandonment for concrete culverts.

FIELD_STRUCT_DESC: [Pumping Plant No. 1] 3 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 141+46)]. FS Date: 4/13/2017 2:50:01 PM

 LM Start
 19.18
 Rating **
 A/W
 Issue No.
 82 (cont)

 LM End
 19.18
 Issue Type +
 Ma
 Location *



Pumphouse on LS toe.

Photo 2 of 3: UCIP_FA_2018_51611_65332.jpg



Slide gates on WS shoulder.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	19.18	Rating **	A/W	Issue No.		82 (cont)	
LM End	19.18	Issue Type +	Ма	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory		Start		End			
Item	DWR UCIP LMA Responsibility			38.93246	o°	38.932460°	
пеш				-121.63515	o°	-121.635150°	
DWR ID	17028					·	

Inspector Comment

Comment Code

FS_ID:51611 DS_ID:17028 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 4/11/2017 Not Abandoned. Good Condition. (DWR Sutter Yard - AFreitag)10/10/2016 NOT ABANDONED. The old pumpimg plant was abandoned but the culverts are still used as a gravity drain to regulate the water level in the LS ditch.(DWR Sutter Yard - afreitag)4/18/2016 Crossing is in good condition. The culvert is not abandoned and is used as gravity drain for the LS ditch into the bypass channel.5/7/2015 Concrete culvert is being used as a gravity drain for LS ditch.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.5/23/2013. Concrete culvert is being used as gravity drain for LS ditch.11/12/2014 Same as last inspection.5/23/2013. Concrete culvert is being used as gravity drain.

inspection.5/23/2013 Concrete culvert is being used as gravity drain for LS ditch.10/9/2012 Need to determine type of abandonment for concrete culverts.

FIELD_STRUCT_DESC: [Pumping Plant No. 1] 3 of 3: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 26 feet below the crown. Slide gates in a concrete well on the waterside (WS) shoulder. Wooden flap gates and concrete headwall on the WS end. Concrete steps and staff gage reading to 53 feet on the WS slope. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315. May 1953 (Station 141+46)].

FS Date: 4/13/2017 2:50:01 PM

Photo 3 of 3: UCIP_FA_2018_51611_65331.jpg



Flap gate at WS toe.

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	19.18	Rating **	M	Issue No.		83
LM End	19.18	Issue Type +	En	Location *		
Category			GPS Latitude/Longitude			
Calegory			Start		End	
ltom	Item DWR UCIP Field Study			38.93242	3°	38.932423°
пеш				-121.63508	5°	-121.635085°
DWR ID	16878					·

Comment Code

Inspector Comment

FS_ID:51612 DS_ID:16878 EP_NO: 3165

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/11/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/10/2016 Abandoned crossing. (DWR Suter Yard-afreitag)4/18/2015 Abandoned crossing. No noticeable issues to report.5/7/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.5/23/2013 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel drainage pipe through the levee, 4 feet below the crown. Siphon breaker in 36-inch corrugated metal pipe (CMP) riser unit on the waterside (WS) shoulder. Flap gate on the WS end. (Permit No. 3165, 1959 - State of California, Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005].

Photo 1 of 1 : UCIP_FA	A_2018_51612_65334.jpg
A Me Ma	
e en anti-	

36-inch CMP riser on WS shoulder.

LM Start	20.02	Rating **	М	Issue No.		29
LM End	20.02	Issue Type +	Ma	Location *	WS	
Category Earthen Levee			GPS Latitude/Longitude			
				Start		End
Item	Slope Stability			38.9226	78°	38.922678 °
пеш			-121.625890 °		-121.625890°	
DWR ID	DWR_ST0002_01_f _ 2015_29					
Comment Code						

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Photo 1 of 1: FA_2018_ST0002_450_29_20180905_00006.jpg



View of the vehicle erosion along the waterside slope.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side

CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated Ma: Maintenance Deficiency

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable AW: Acceptable but Monitor & Maintain

* Issue Type

Ma: Maintenance Deficiency

Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	10/03/2018 10/03/2018	Bob Duffey

LM Start	20.34	Rating **	U	Issue No.		10
LM End	20.34	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Itom	ltem Encroachments			38.9181	47°	38.918147°
пеш				-121.624545 °		-121.624545 °
DWR ID DWR_ST0002_01_s _ 2012_10						
		Comn	nent Cod	de		
BU : Buildi	ng					
Inspector Comment						

Photo 1 of 1 : FA_2018_ST0002_450_10_20180905_00001.jpg



View of the house next to the toe of the levee.

LM Start	21.29	Rating **	A/W	Issue No.		43	
LM End		Issue Type +	Ob	Location *		LS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory						End	
Item	2017 Storm Damage		38.90483	32°		0	
пеш				-121.6201	51 °		0
DWR ID	DWR_ST0002_01_f _ 2017_43						
Comment Code							

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:174

Site Designation:164-24 Repair Type: Seepage

Rating: Field Date: Notes: No Photos